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FIG. 1

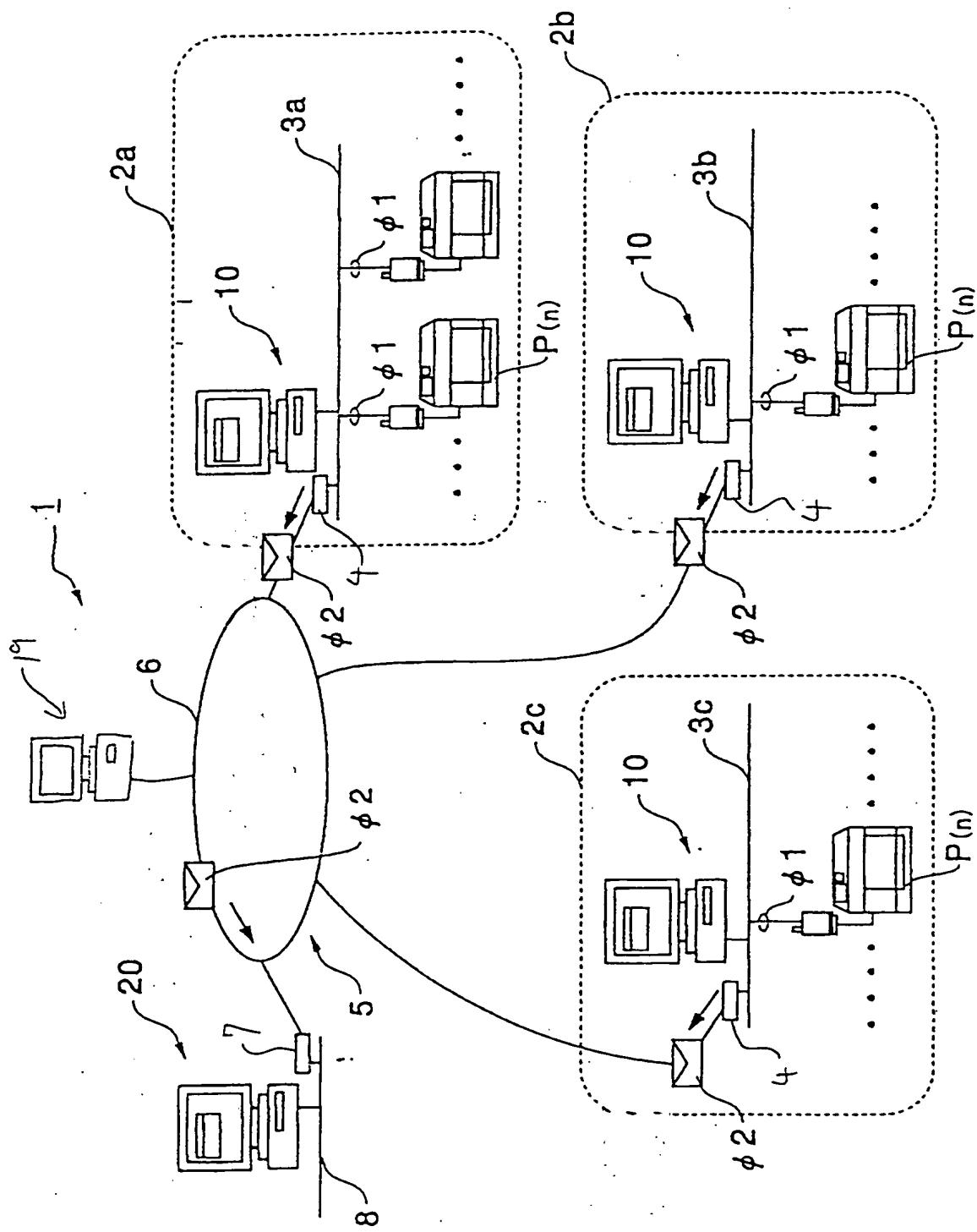


Fig. 2

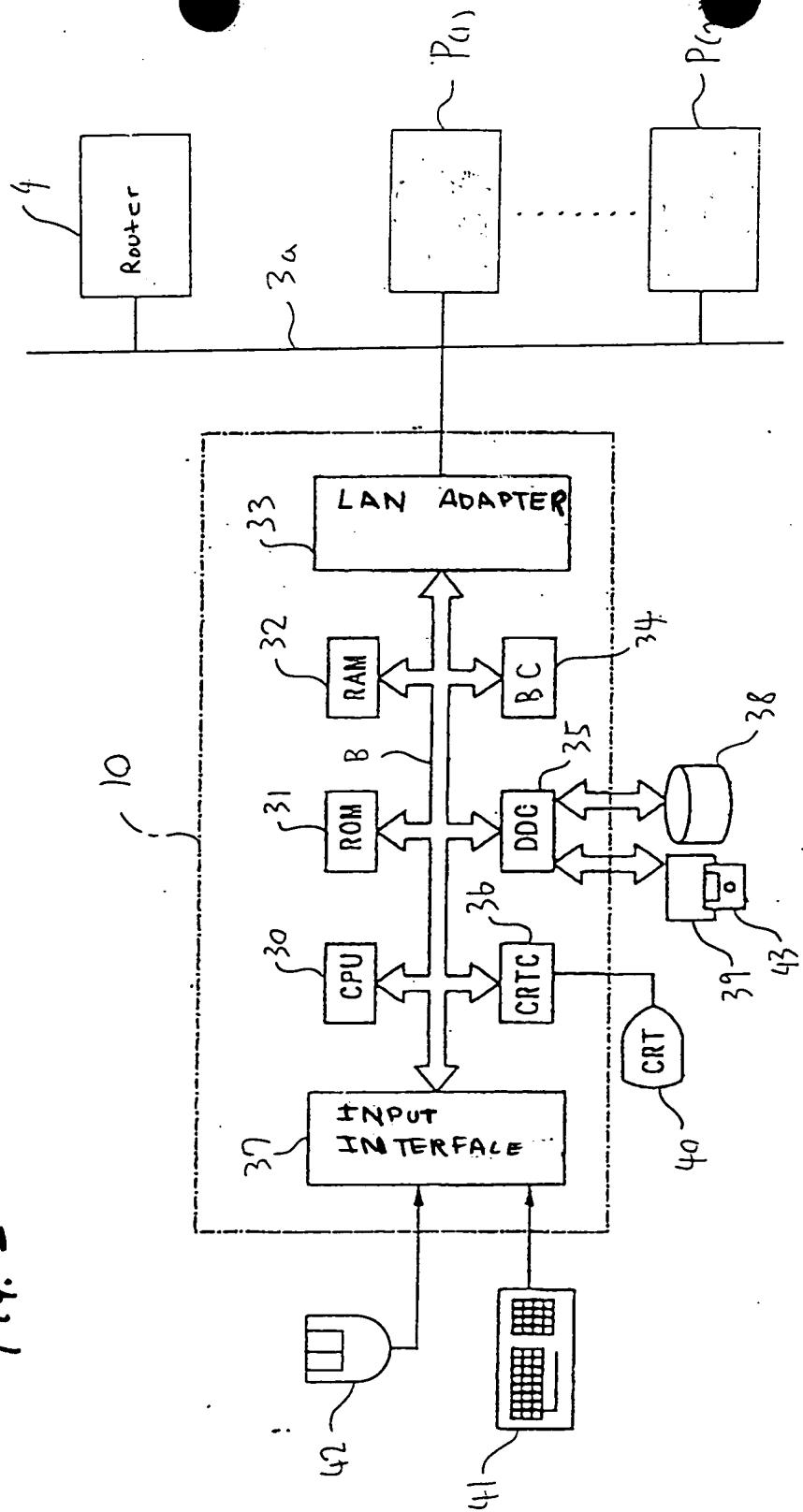


FIG. 3

663070 = 2222220

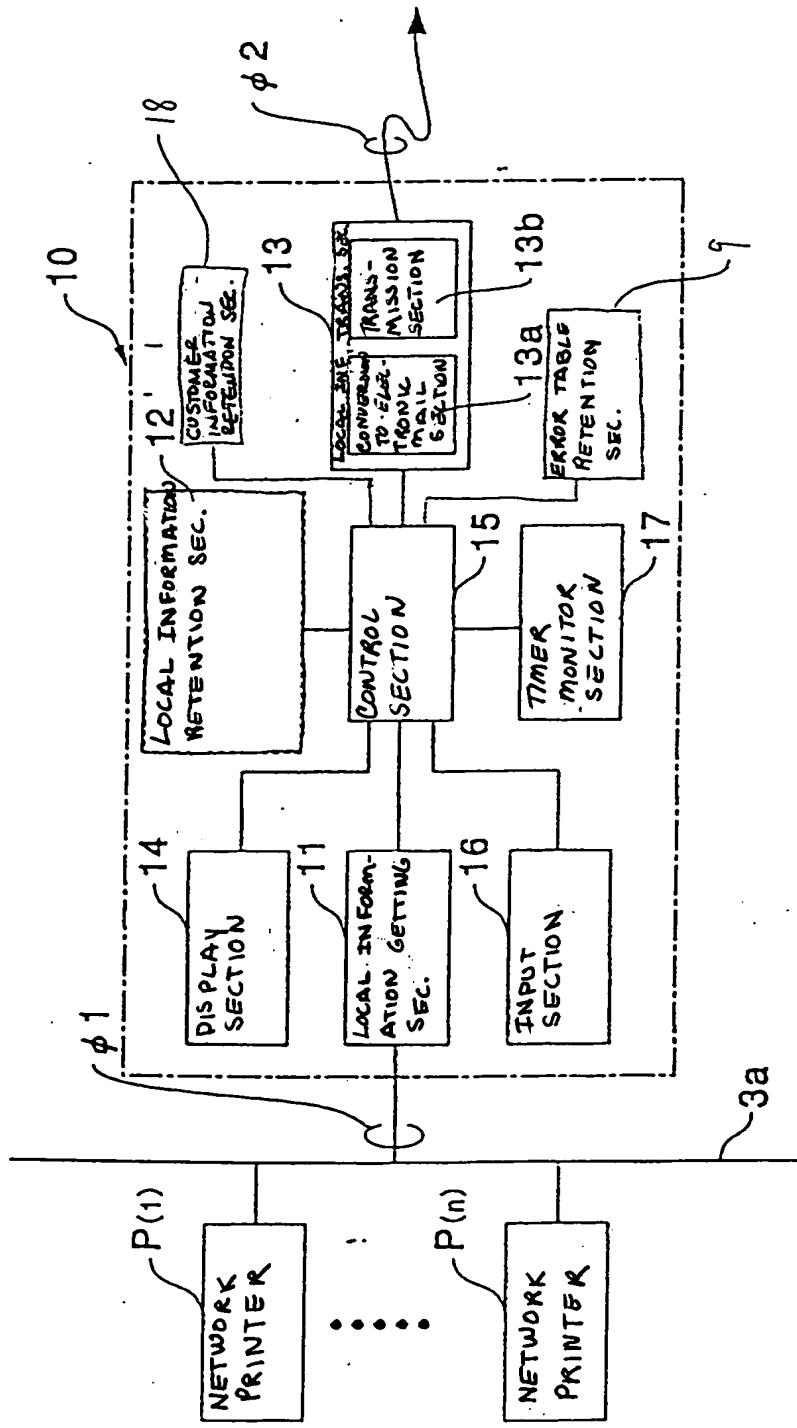


FIG. 4

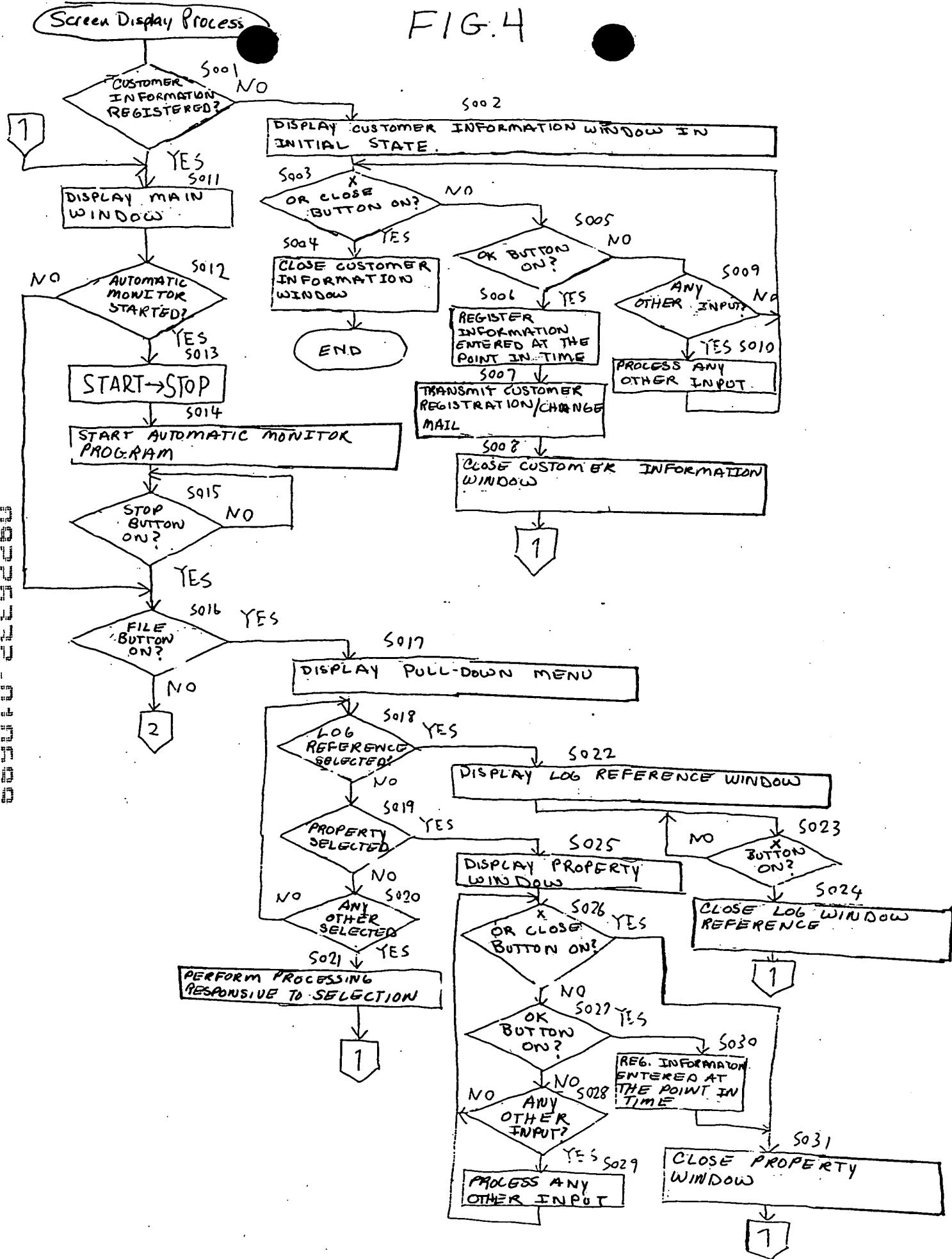


FIG. 5

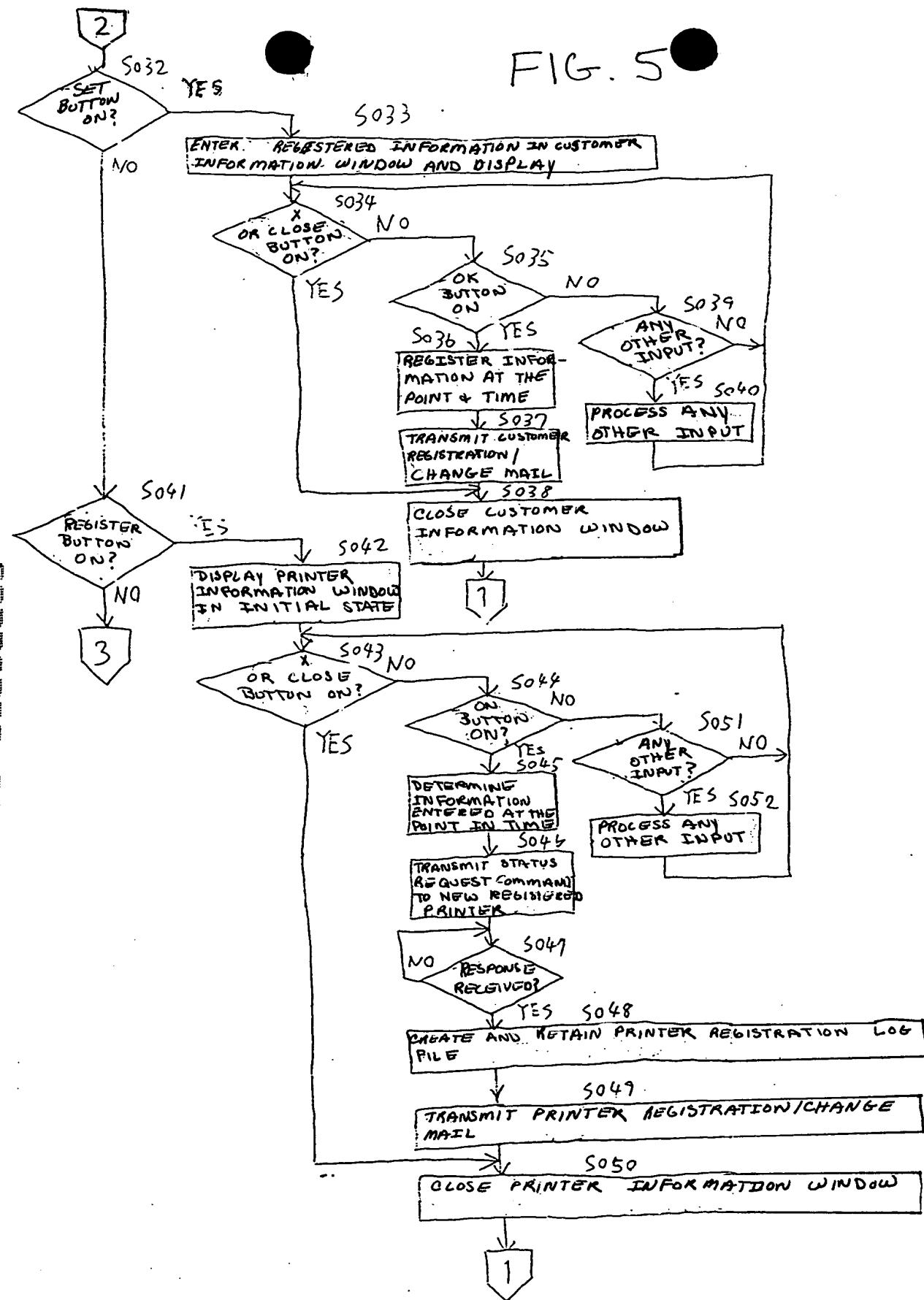
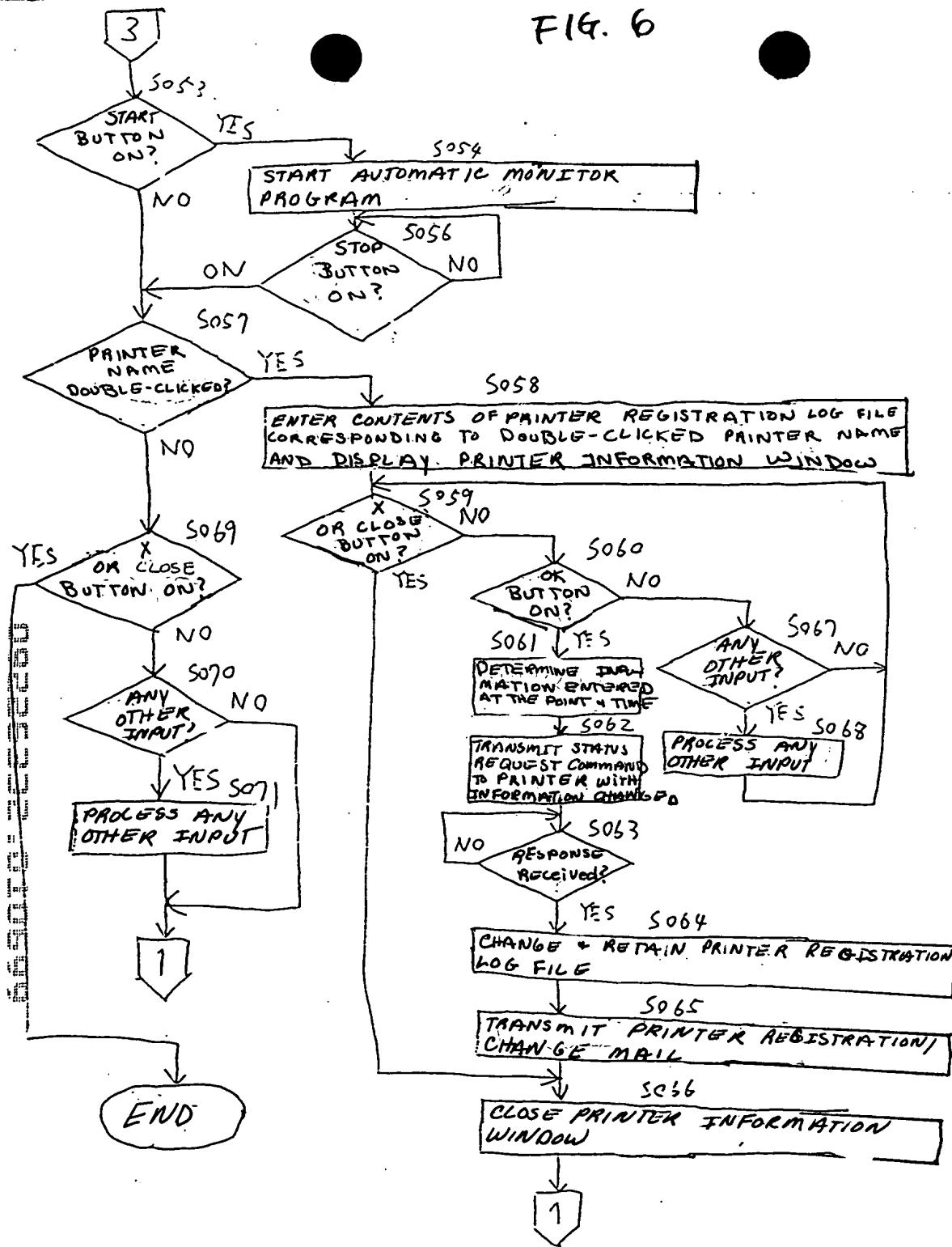


FIG. 6



Automatic Monitor Proc

FIG. 7

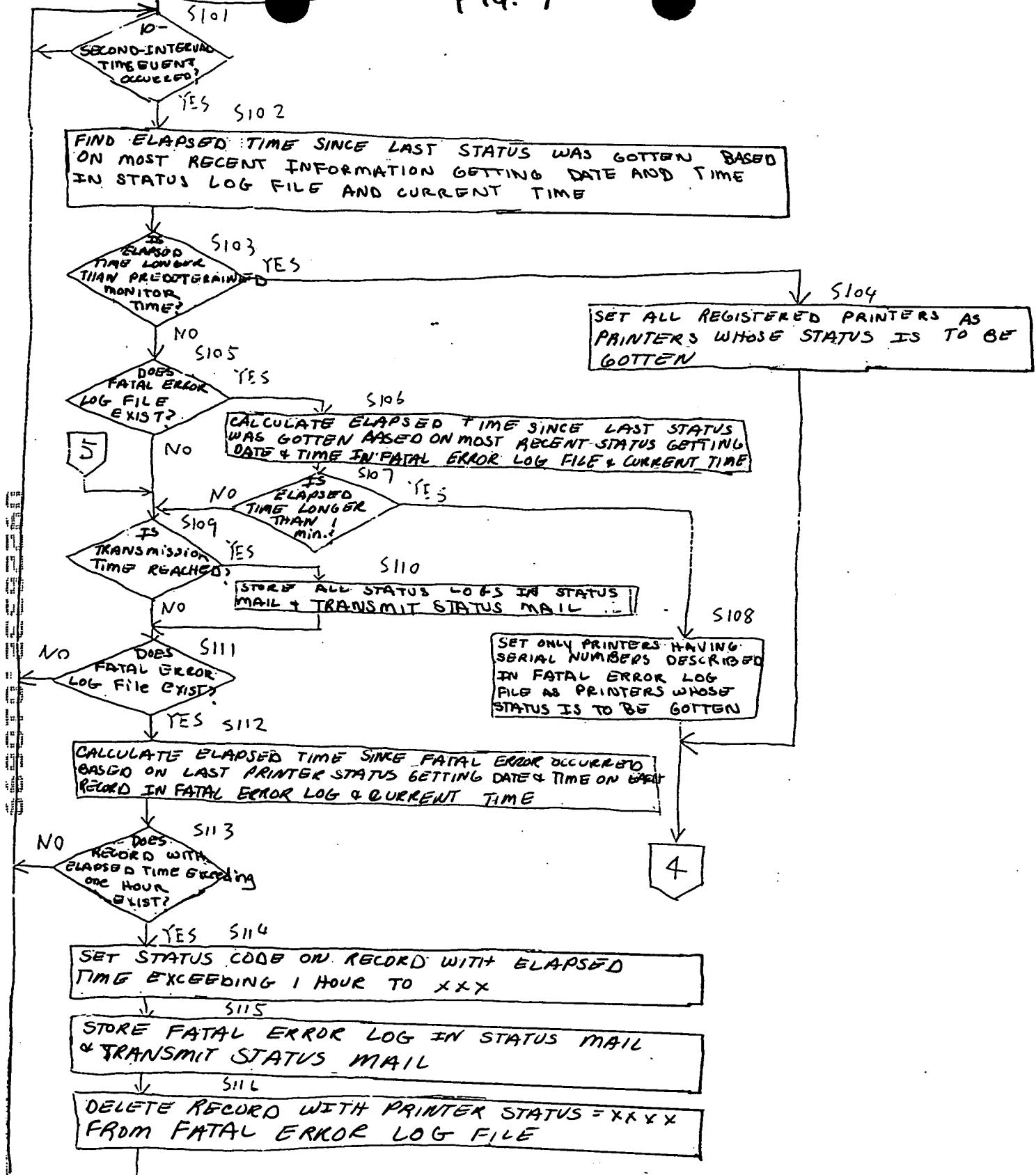


FIG. 8

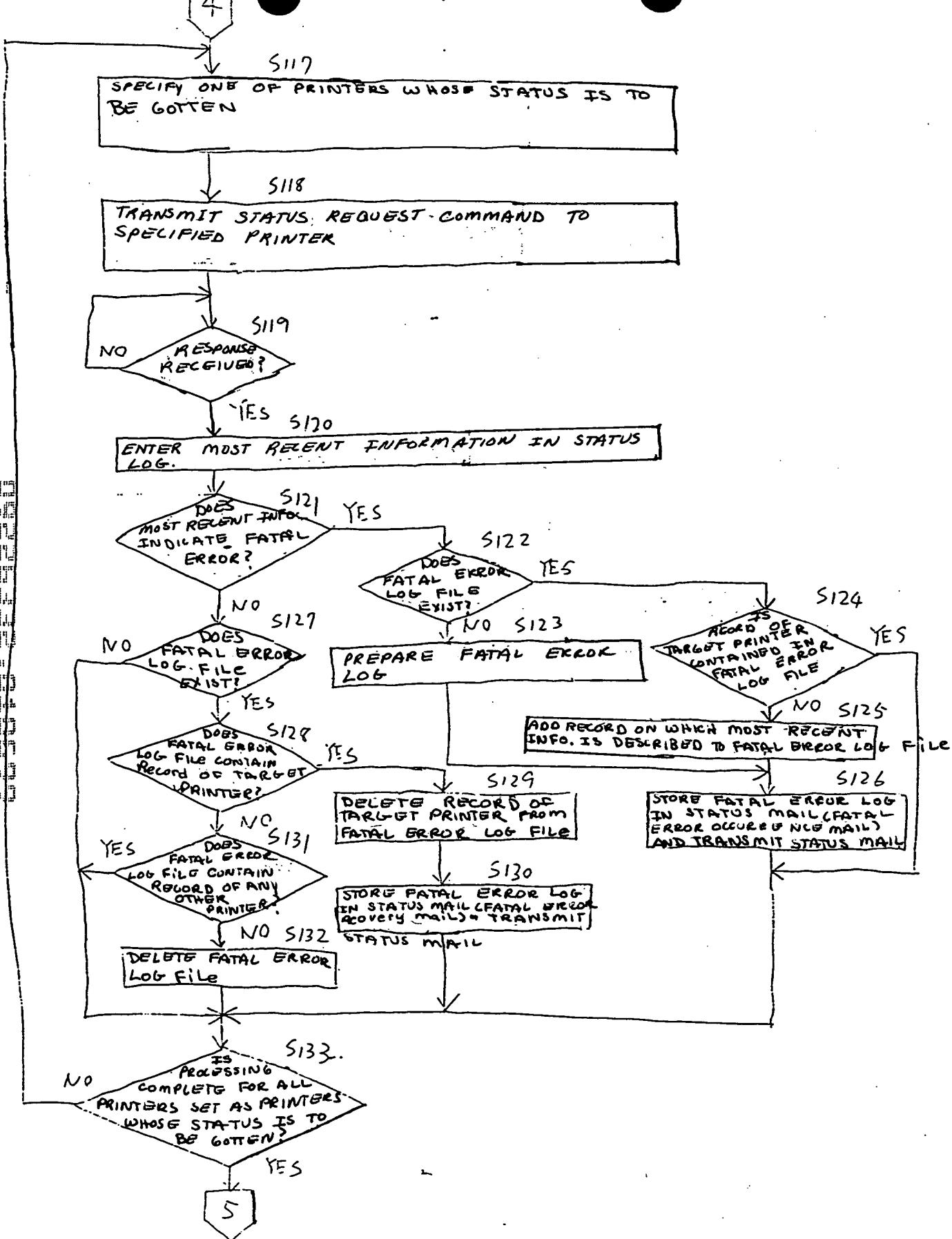
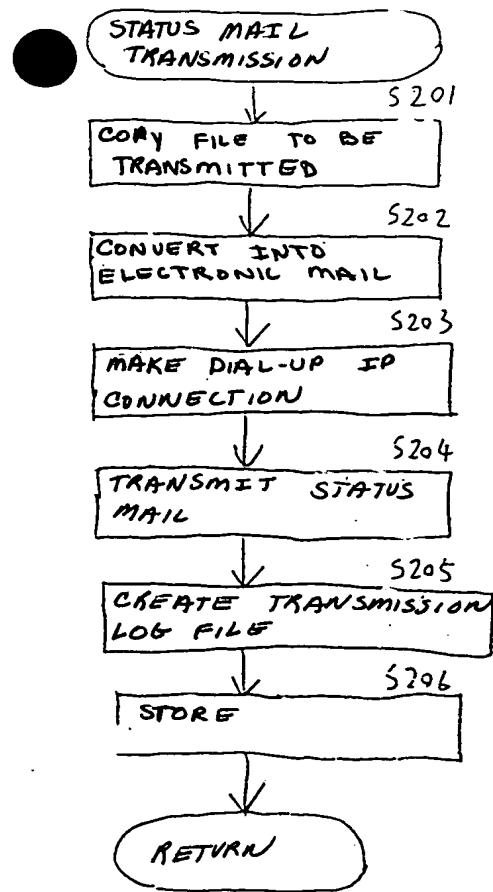


FIG. 9



0 0 0 0 0 0 0 0 0 0

FIG. 10

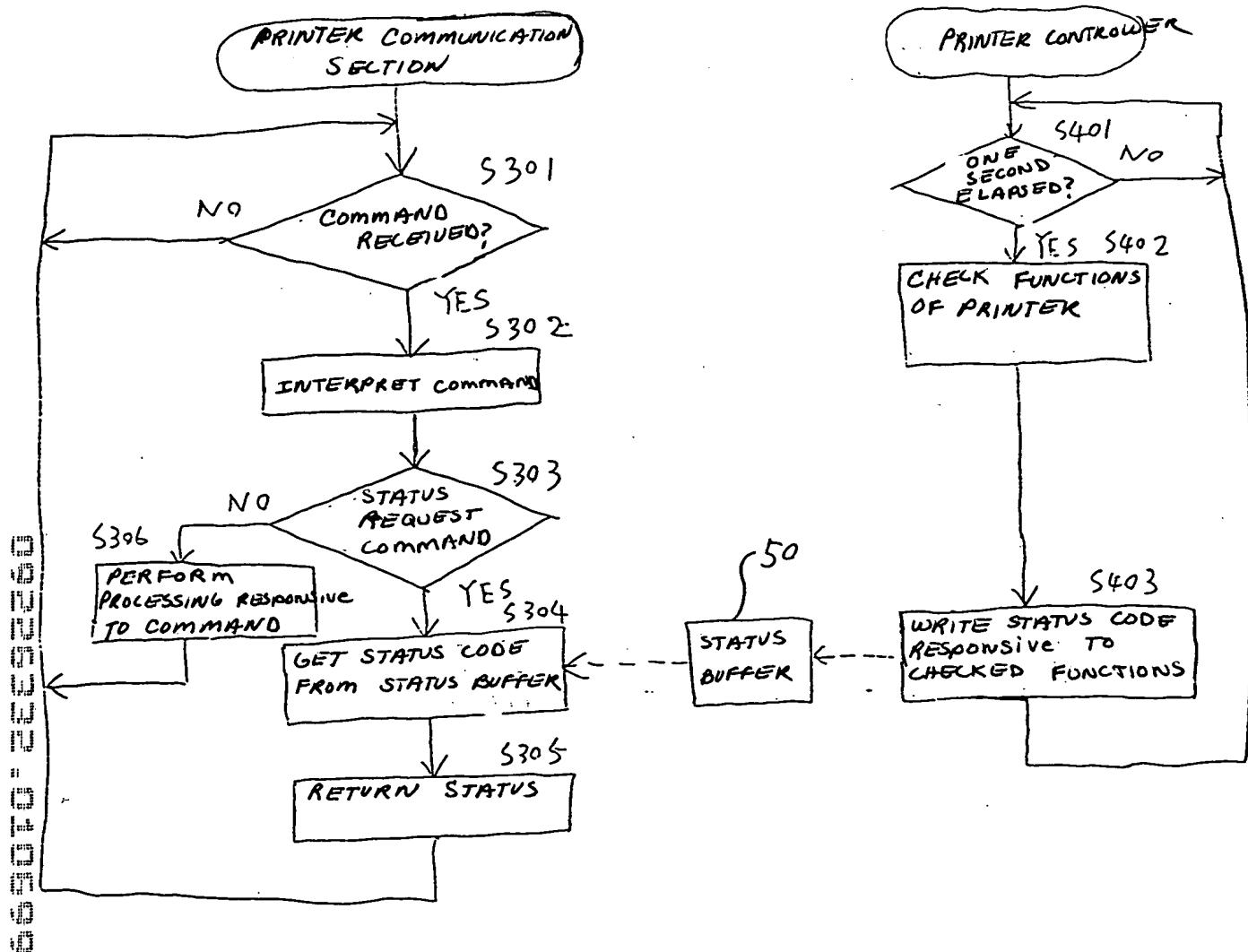


FIG. 11

CUSTOMER INFORMATION

AGENCY MAIL ADDRESS:

EPSON-TRANSMIT

CUSTOMER INFORMATION

CUSTOMER NAME:

ADDRESS:

TEL. NO.: - - FAX NO. - -

ADMINISTRATOR

MAIL ADDRESS:

REMARKS:

STATUS TRANSMISSION

INTERVAL Specification

Time Specification

FIG. 12

MAIL HEADER FORMAT

ITEM	MESSAGE
Subject:	CDS CustomerMessage

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MAIL TEXT FORMAT

CUSTOMER NAME BEFORE CHANGE	CUSTOMER NAME BEFORE CHANGE (BLANK FOR NEW CUSTOMER)
CUSTOMER NAME AFTER CHANGE	CUSTOMER NAME BEFORE CHANGE (DITTO FOR NEW CUSTOMER)
ADDRESS 1	CUSTOMER ADDRESS
ADDRESS 2	CUSTOMER ADDRESS
Tel 1, Tel 2, Tel 3	CUSTOMER TELEPHONE NUMBER
FAX 1, FAX 2, FAX 3	CUSTOMER FAX NUMBER
ADMINISTRATOR	CUSTOMER ADMINISTRATOR
MAIL ADDRESS	MAIL ADDRESS OF AGENT UNIT ADMINISTRATOR
REMARKS	REMARKS
UPDATE DATE & TIME	LAST UPDATE DATE & TIME IN AGENT UNIT

FIG. 13

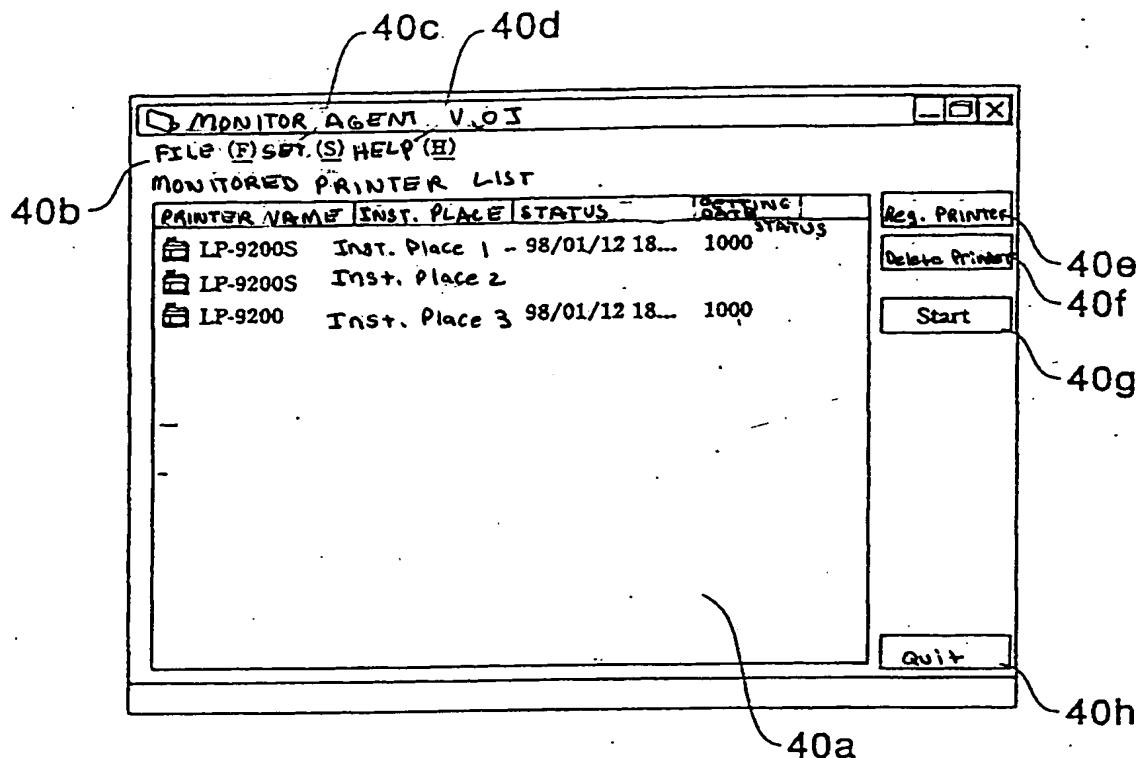
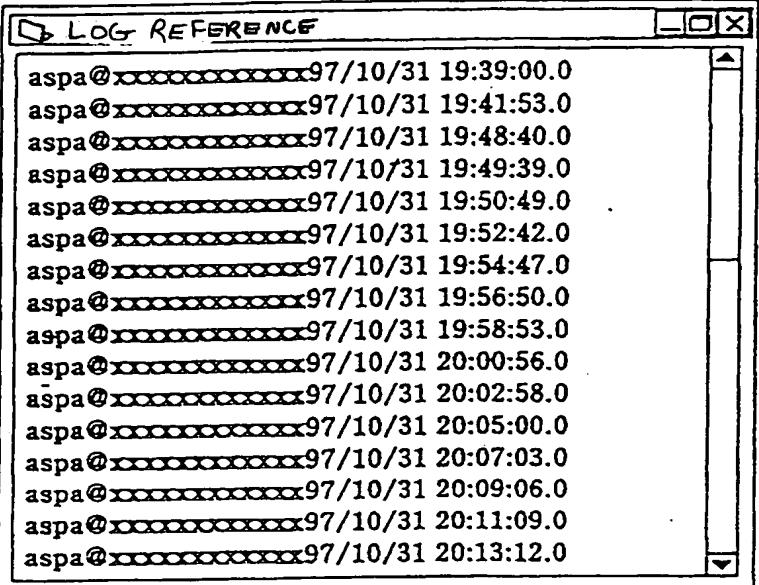


FIG. 14



aspa@xxxxxxxxxx 97/10/31 19:39:00.0
aspa@xxxxxxxxxx 97/10/31 19:41:53.0
aspa@xxxxxxxxxx 97/10/31 19:48:40.0
aspa@xxxxxxxxxx 97/10/31 19:49:39.0
aspa@xxxxxxxxxx 97/10/31 19:50:49.0
aspa@xxxxxxxxxx 97/10/31 19:52:42.0
aspa@xxxxxxxxxx 97/10/31 19:54:47.0
aspa@xxxxxxxxxx 97/10/31 19:56:50.0
aspa@xxxxxxxxxx 97/10/31 19:58:53.0
aspa@xxxxxxxxxx 97/10/31 20:00:56.0
aspa@xxxxxxxxxx 97/10/31 20:02:58.0
aspa@xxxxxxxxxx 97/10/31 20:05:00.0
aspa@xxxxxxxxxx 97/10/31 20:07:03.0
aspa@xxxxxxxxxx 97/10/31 20:09:06.0
aspa@xxxxxxxxxx 97/10/31 20:11:09.0
aspa@xxxxxxxxxx 97/10/31 20:13:12.0

FIG. 15

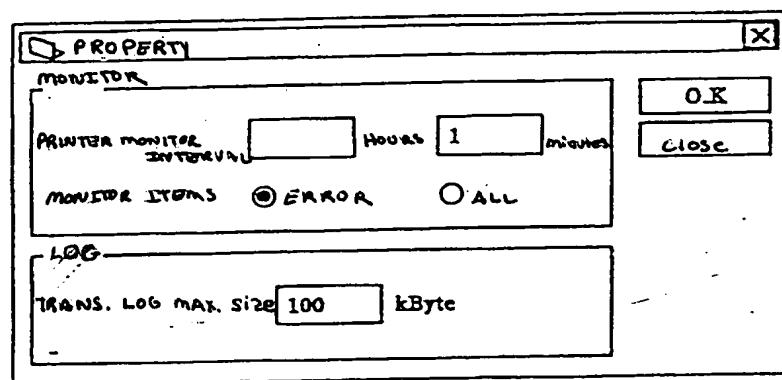


FIG. 16

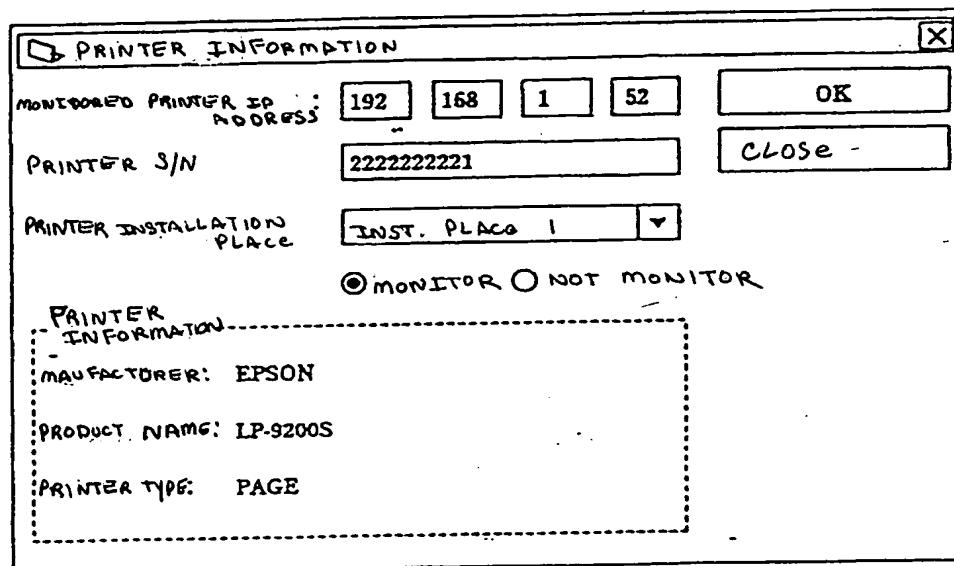


FIG. 17

12C

IP ADDRESS	IP ADDRESS OF PRINTER
SERIAL NUMBER	SERIAL NUMBER OF PRINTER MONITORED BY AGENT UNIT EXAMPLE: AAX0027122
PRINTER INSTALLATION PLACE	INSTALLATION PLACE OF PRINTER
PRINTER MANUFACTURE NAME	MANUFACTURE NAME OF PRINTER
MODEL NAME	PRINTER NAME
PRINTER TYPE	PAGE:PAGE PRINTER COLORPAGE: COLOR PAGE PRINTER
MONITOR FLAG	DETERMINATION AS TO WHETHER OR NOT PRINTER IS TO BE MONITORED 0:NOT MONITOR 1:MONITOR
DATE & TIME	DATE & TIME AT WHICH STATUS WAS GOTTEM
STATUS CODE	CURRENT STATUS CODE

FIG. 18

φ 4

MAIL HEADER FORMAT

ITEM	MESSAGE
Subject	CDS PrinterMessage

MAIL TEX FORMAT

SER. # BEFORE change, SER. # AFTER CHANGE, PRINTER INST. PLACE, PRINTER NAME,

PRINTER TYPE, CUST. NAME, ADDRESS 1, ADDRESS 2, Tel. 1,

Tel. 2, Tel. 3, FAX 1, FAX 2,

FAX 3, ADMINISTRATOR, MAIL ADDRESS, REMARKS,

UPDATE DATE
+ TIME

FIELD NAME	DESCRIPTION
CUSTOMER MAIL ADDRESS	MAIL ADDRESS OF CUSTOMER HAVING PRINTER WHOSE STATUS WAS GOTTEN
INFORMATION GETTING DATE & TIME	DATE & TIME WHICH MONITOR AGENT MONITORED
	FORMAT EXAMPLE: 1997/09/30 13:39:17
S/N	SERIAL NUMBER OF PRINTER
PRINTER STATUS	STATUS CODE OF PRINTER MONITORED BY MONITOR AGENT
POWER REMAINING AMT.	POWER REMAINING AMOUNT % IN PRINTER STATUS
INK REMAINING AMT. 1	INK Remaining Amt Black
INK Remaining Amt. 2	INK Remaining Amt Cyan
INK Remaining Amt. 3	INK Remaining : Magenta
INK Remaining Amt. 4	INK Remaining : Yellow
WASTE TONER	WASTE TONER BOX USE AMOUNT
OIL ROLL	OIL ROLL REMAINING AMOUNT
Photosensitive unit Remaining Life	Remaining Life of Photosensitive unit in Printer status
TOT. # OF PRINT SHEETS	TOT. # OF PRINT SHEETS
TOT. # OF PRINT SHEETS IN TERMS OF MONOCHROME PRINT	TOT. # OF PRINT SHEETS IN TERMS OF MONOCHROME PRINT
COLOR. RATIO	COLOR PRINT RATIO

FIG. 20

Z13x Z13y 28 Z13z

ERROR LEVEL	Code	DISPLAY STATUS Message
E1	⑧ Fatal Error	service call error FATAL error continues for one hour or more
	> 6000 XXXX	
E2	① Warning	Toner is getting low PRINT with some omission because of mem. shortage memory should be added
	2001 2002 2003- 3000 3001 3004 4001 4003 4008 4009 4012 4014 4017	PRINT overrun memory shortage memory for printing back side is insufficient Toner out IC card or dimm write resulted in failure Paper jam Paper feed error Paper jam in paper discharge section unavailable option Type B interface card is mounted Paper jam in double-sided unit
E3	① Information	IDle (printable) unprintable Job execution (printable) Job cancel Reset Processing IC card or dimm write engine warming up Power Save mode Forcible paper discharge engine print operation Test print Inactive interface writable but unformatted IC card or dimm is inserted Passed paper size & size of paper to be attempted to print do not match Double-sided print is canceled PCMCIA card backup power battery has insufficient capacity
	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1012 2000 2004 2005 2007 3003 4000 4002 4003 4004 4007 4010 4011 4013 4015 4016 4018 4019 4020	Toner cartridge is not set Printer cover is open Unavailable IC card, cartridge, or dimm is inserted IC card or cartridge is inserted or extracted in insertion/extraction inhibit mode Paper cassette is not set No paper Paper feed error or no paper Paper that cannot be printed in portrait orientation is set in portrait orientation Double-sided unit cover is open mismatch between passed paper size & size of paper to be attempted to print double-sided Unavailable LocalTalk/Serial module is mounted. PCMCIA card backup battery out Communication error occurred in serial I/F
	① Information	misc. error This error occurs if printer power is off or ASP monitor Agent does not normally operate.

FIG.21

Information getting date and time	Date and time at which fatal error occurred. Used as one-hour continuation determination. Format example: 97/09/30 AM 1:39:17
Printer serial number	Serial number of printer monitored by agent unit. Example: AAX0027122
IP Address	IP address of printer to be monitored for one-hour continuation.
Printer type	Page: Page Printer Color Page: Color Page Printer
Status Code	Status code when fatal error occurred.

0
10
20
30
40
50
60
70
80
90
00

FIG. 22

Mail Header Format

Item	Message
Subject:	CDS Message: Mail Address

Mail Test Format

Field Name	Description
Customer mail address	Mail address of customer having printer whose status was gotten.
Information getting date and time	Date and time at monitor agent monitored. Format example: 1997/09/30 13:39:17
S/N	Serial number of printer.
Printer Status	Status code of printer monitored by monitor agent
Toner remaining amount	Toner remaining amount (%) in printer status.
Ink remaining amount 1	Ink remaining amount (%): Black
Ink remaining amount 2	Ink remaining amount (%): Cyan
Ink remaining amount 3	Ink remaining amount (%): Magenta
Ink remaining amount 4	Ink remaining amount (%): Yellow
Waste toner	Waste toner box use amount
Oil roll	Oil roll remaining amount
Photosensitive unit remaining life	Remaining life of photosensitive unit in printer status.
Total number of print sheets	Total number of print sheets.
Total number of print sheets in terms of monochrome print	Total number of print sheets in terms of monochrome print.
Color ratio	Color print ratio.

FIG. 23

Transmission destination mail address	Mail address of console unit to which mail is to be transmitted. Example: aspc@xxxxxx.co.jp.
Serial number	Serial number of printer monitored by agent unit. Example: AAX0027122
Transmission date and time	Date and time at which agent unit transmitted status. Example: 97/09/30 AM 1:39:17
Transmission status	Mail transmission status. 0: Normal, not 0: error

0
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10
10
00
00
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00
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003070-2020260

Fig. 24

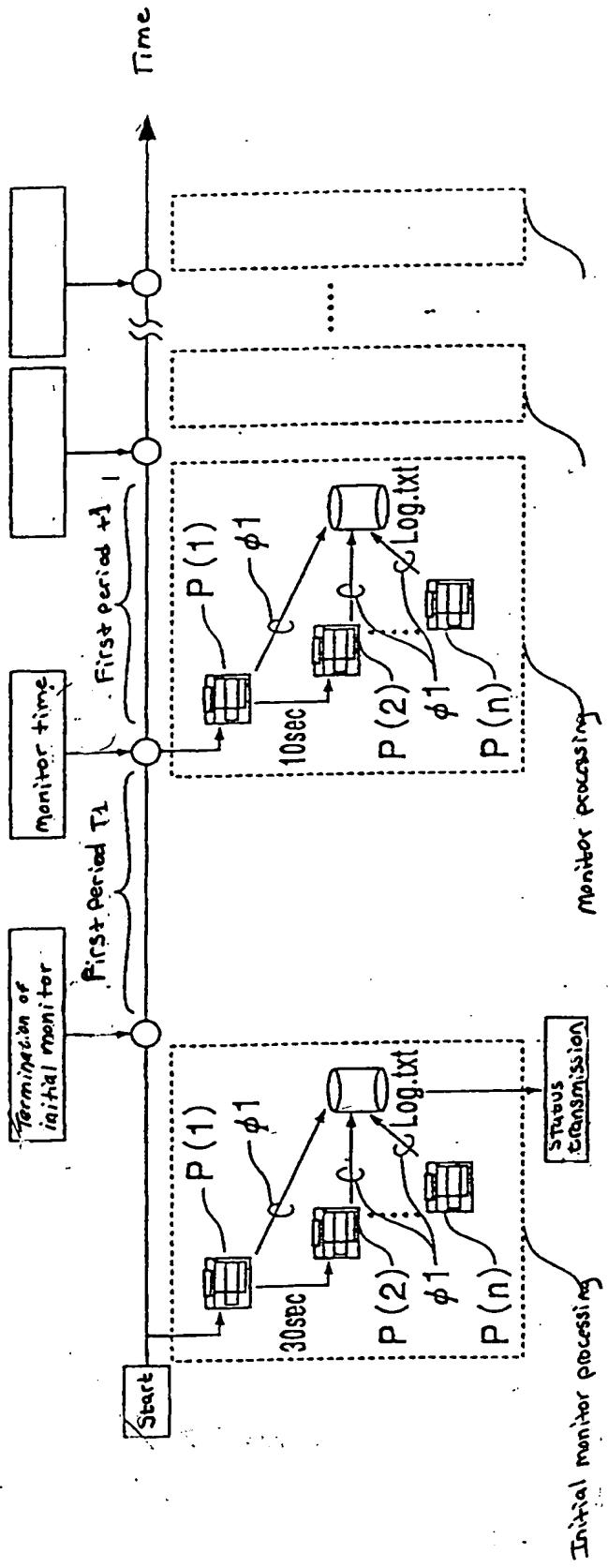


Fig. 25

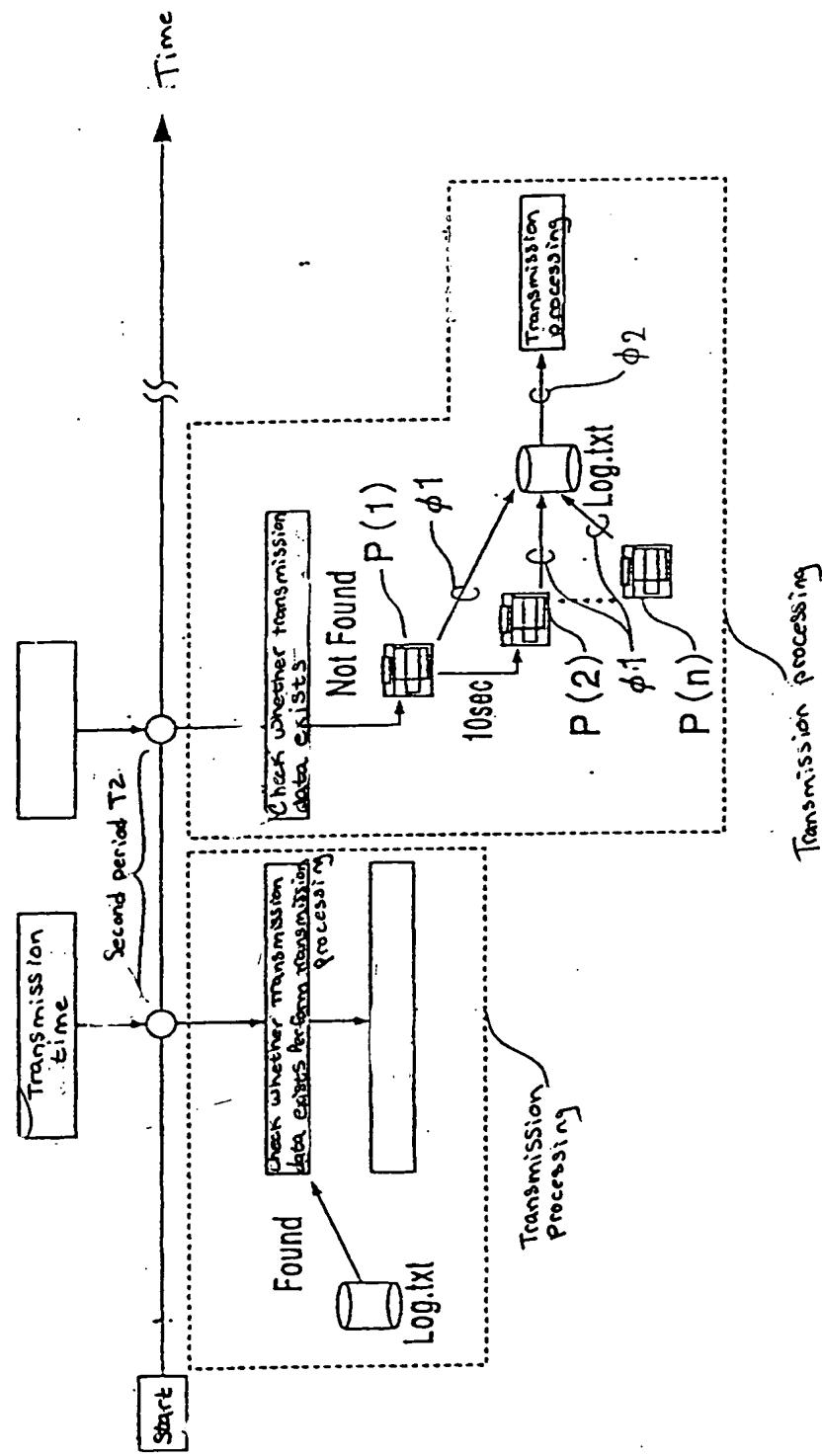


Fig. 26

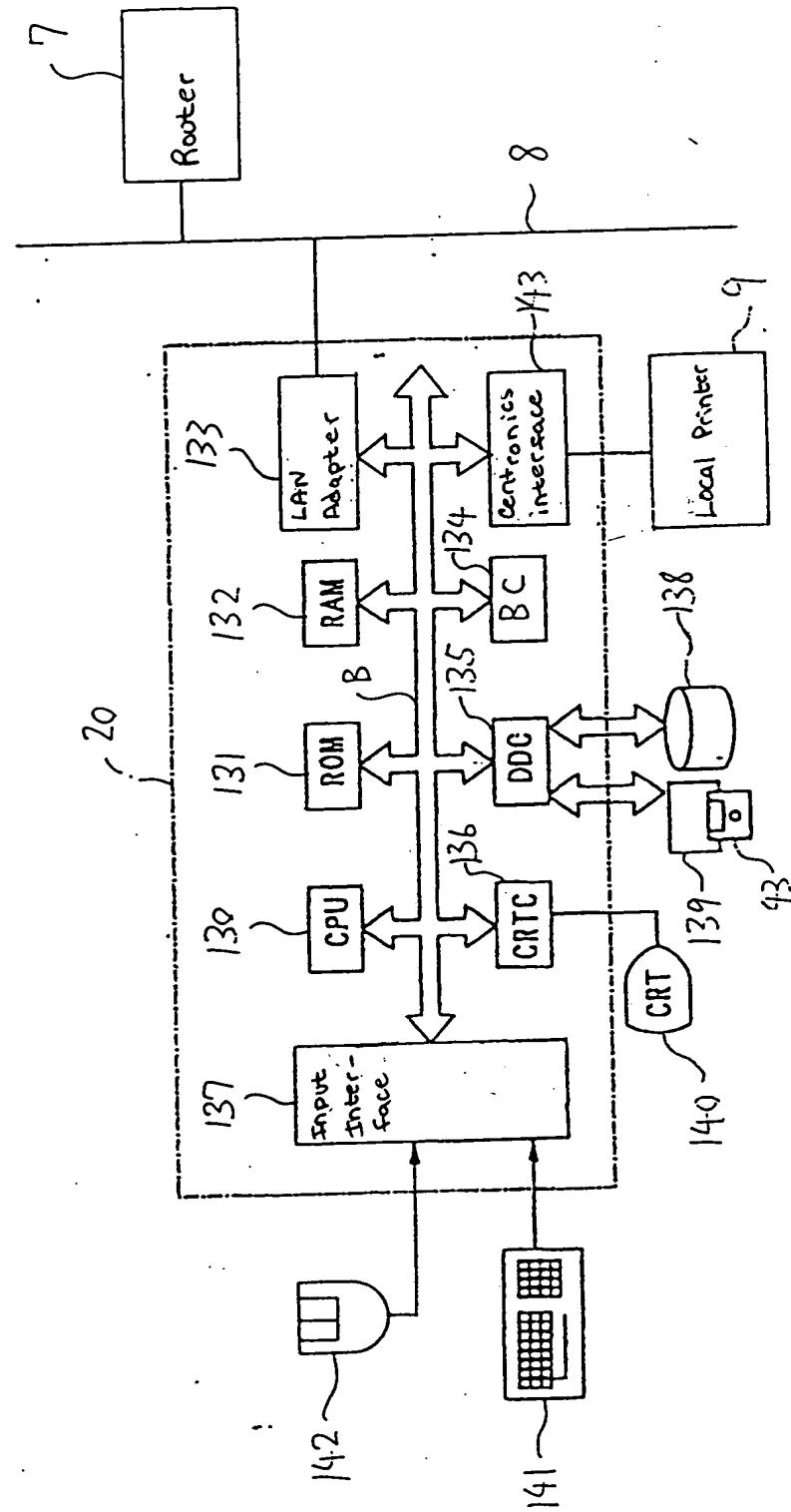


Fig. 27

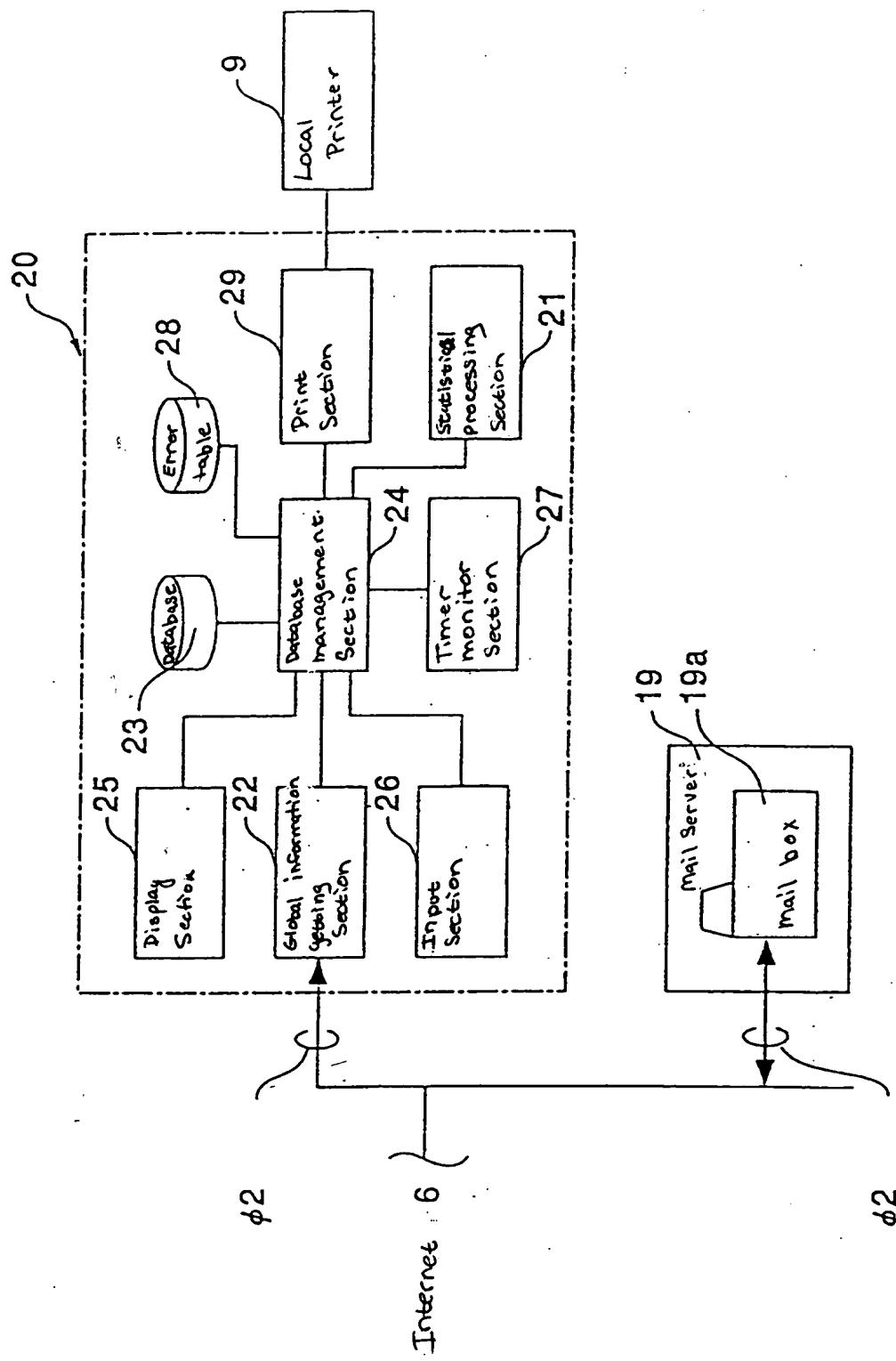


FIG 28A

Agent information	Company Name	Text	100	Agent installation agency name
	Installation Date	Date/time	8	Monitor agent installation date and time.
	Tel. Number	Text	20	Agency telephone number.
	Fax Number	Text	20	Agency fax number.
	Administrator	Text	100	Person in charge of administrating monitor agent.
	Remarks	Text	255	Information.
	Monitor interval	Number	4	Reception party address reception interval of mail sent from customers.
	Non-reception determination criterion	Number	1	Timer specification of interval specification for non-reception determination
	Non-reception determination	Number	4	Non-Reception determination time.
	System log size number	Number	4	Number of records to display past information of printer status.
Customer Information	Customer Code	Number	4	Code assigned by system.
	Company name	Text	100	Customer name.
	Customer pilot Tel. Number	Text	20	Pilot Tel. Number of customer.
	Customer pilot fax number	Text	20	Pilot fax number of customer.
	Address 1	Text	255	Customer address 1
	Address 2	Text	255	Customer address 2
	Representative	Text	100	Customer representative
	e-mail address	Text	128	Mail address of machine in which monitor agent is installed.
	Administrator mail address	Text	128	Mail address of monitor agent administrator.
	Last update date and time	Date/Time	8	Information update date and time.
	Remarks	Text	t255	Remarks information.
	Error Level	Text	1	Most recent status - A: Fatal, B: Warning, C: Information, D: Default.
	Agency memo	Memo		Agency memo is stored
	Transmission setting	Text	1	Interval specification or time specification for transmission.
	Transmission day units	Text	1	Day intervals of interval specification transmission.
	Transmission time	Text	1	Transmission time.
	Transmission interval	Number	4	Transmission interval.
Printer information	S/N	Text	10	Serial number of printer.
	Customer code	Number	4	External reference to customer code in customer information.
	Printer name	Text	40	Printer name.
	Printer type	Text	10	Printer Type: Page, SIDM_1, SIDM_2, INJ_1, INJ_2, No type.

FIG 28B

	Administration department	Text	100	Administration department of printer.
	Status text	Text	5	Storage of status code from printer.
	Error level	Text	1	Most recent status. A: Fatal, B: Warning, C:Information, D: Default.
	Information getting date and time	Date/time	8	Date and time at which information was gotten.
	Information update and time	Date/Time	8	Date and time at which information was updated.
	Agency memo	Memo		Memo in agency.
Status information	S/N	Text	10	External reference to S/N in printer information.
	Information getting date and time	Date/time	8	Date and time at which information was gotten.
	Error level	Text	1	History status for each printer A: Fatal, B: Warning, C: Information.
	Status	Text	5	Mail text sent from monitor agent.
	Toner/Ink remaining amount	Number	4	Toner/Ink remaining amount in printer.
	Ink remaining amount 1	Number	4	Ink remaining amount in printer (Black).
	Ink remaining amount 2	Number	4	Ink remaining amount in printer (Yellow).
	Ink remaining amount 3	Number	4	Ink remaining amount in printer (Magenta).
	Ink remaining amount 4	Number	4	Ink remaining amount in printer (Cyan).
	Ink remaining amount 5	Number	4	Ink remaining amount in printer (Light Cyan).
	Ink remaining amount 6	Number	4	Ink remaining amount in printer (Light Magenta).
	Total number of planes	Number	4	Total number of planes.
	Total number of print sheets in terms of monochrome print	Number	4	Total number of print sheets in terms of waste toner.
	Color ratio	Number	4	Color print ratio.
	Consumables	Text	1	Consumable flat 1: Consumable, 0: others.
	Photosensitive unit	Number	4	Remaining life of photosensitive unit.
	Oil roll	number	4	Roll remaining amount.
	Waste toner.	Number	4	Waste toner box use amount.

FIG. 29

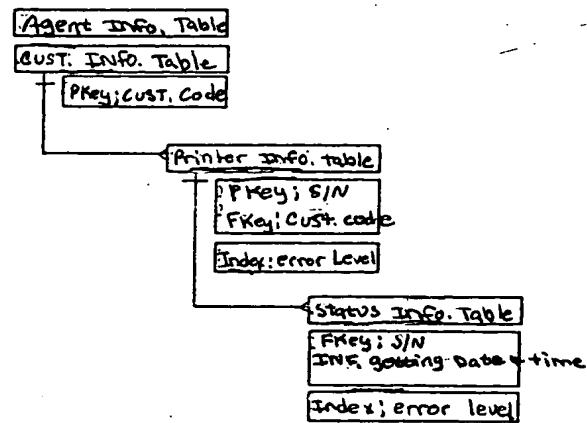


FIG. 30

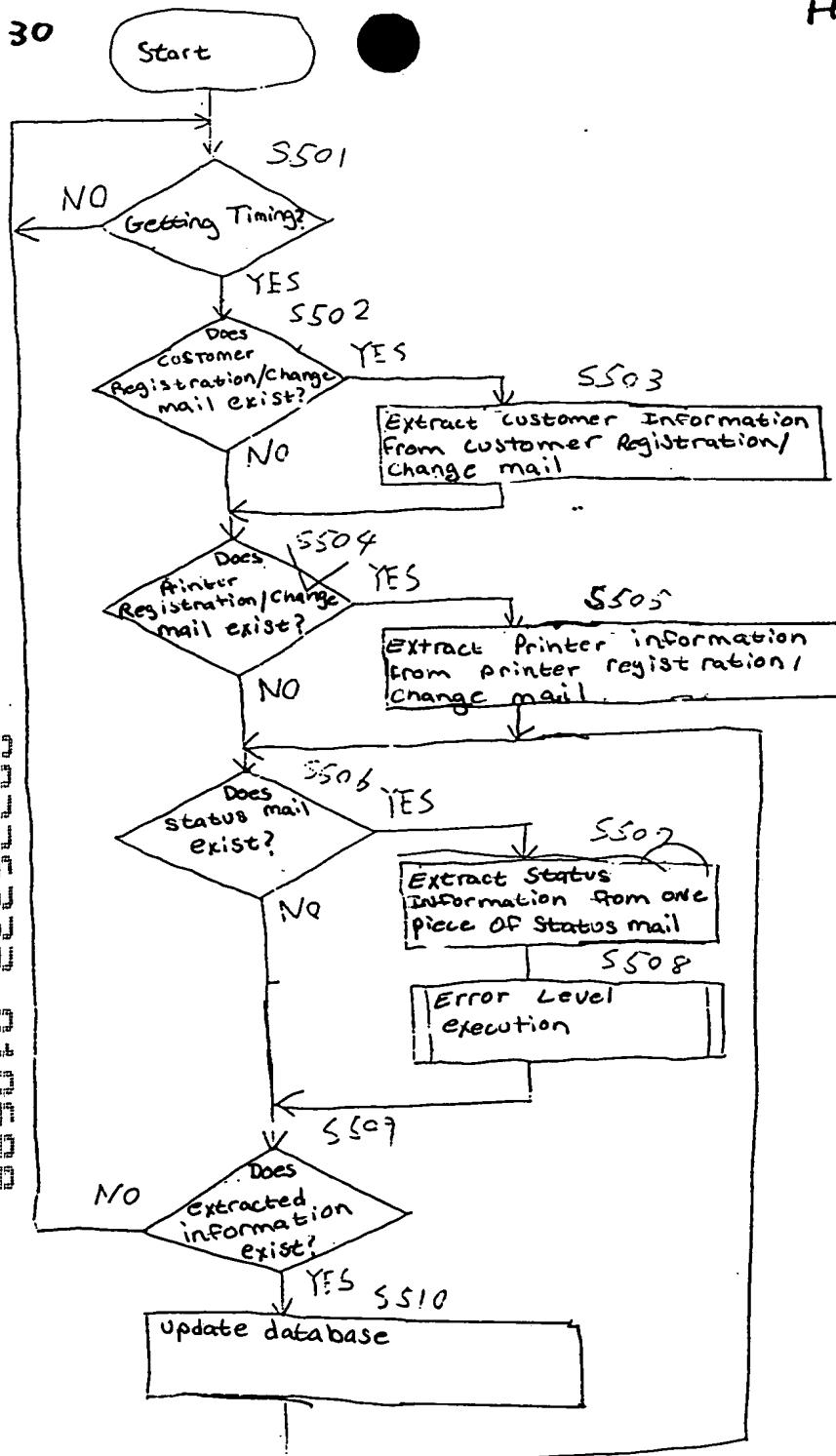


FIG. 31

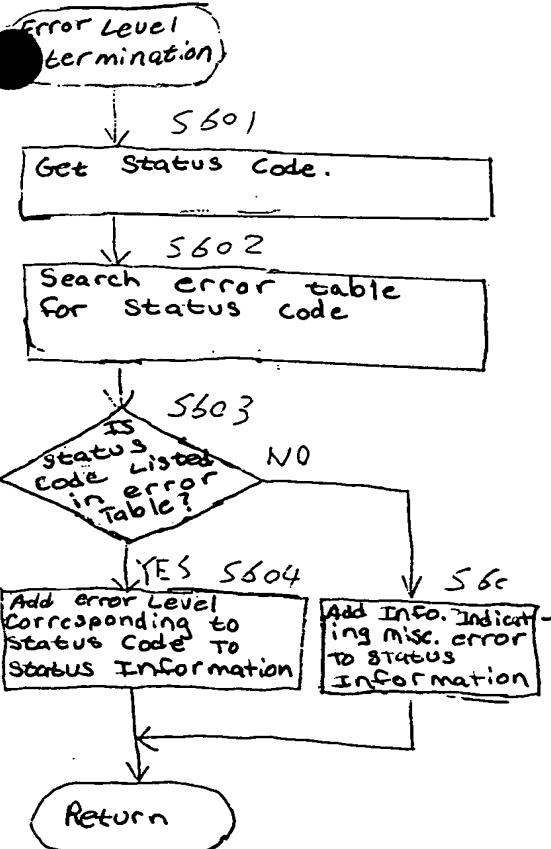


FIG. 32

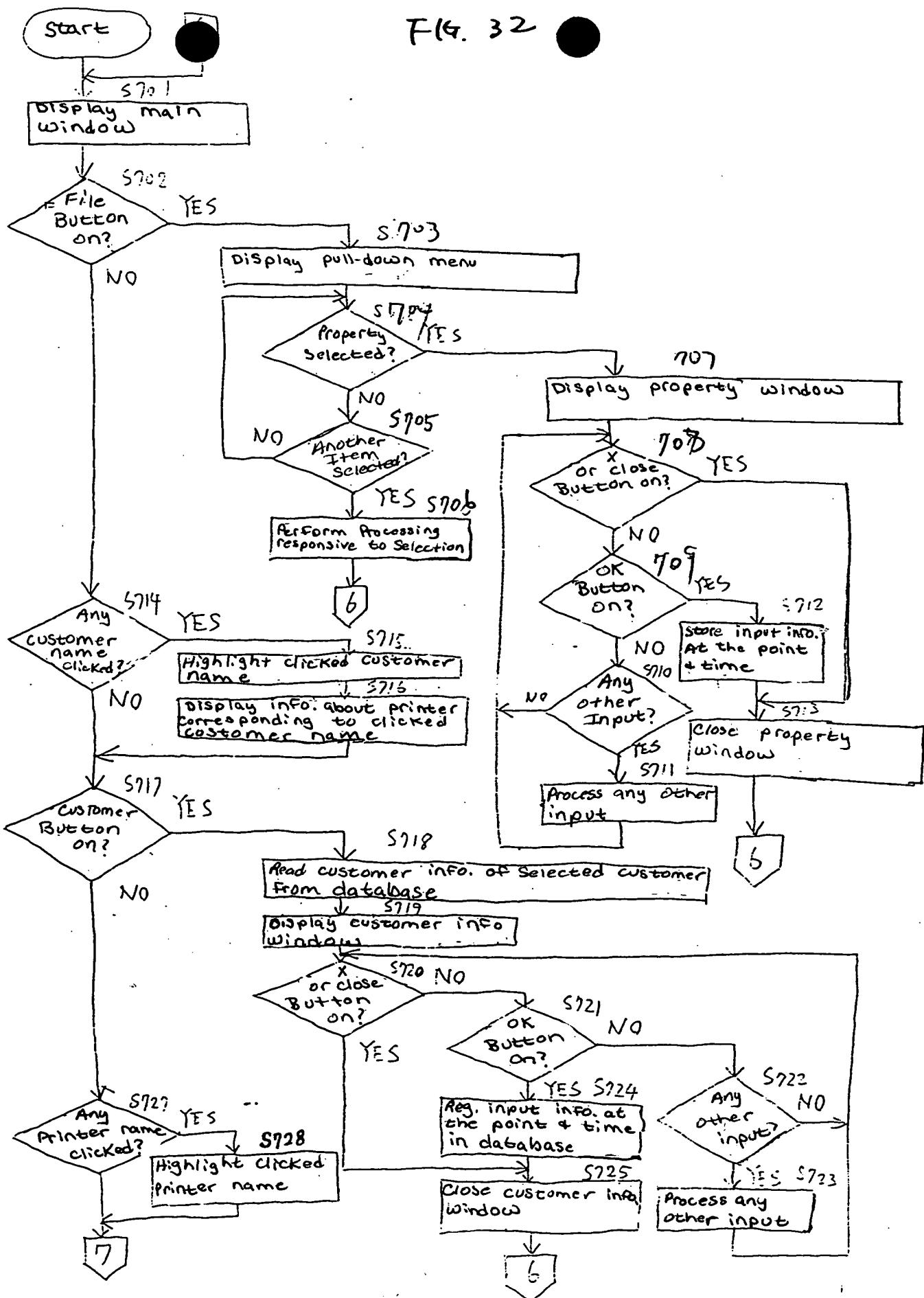


FIG. 33

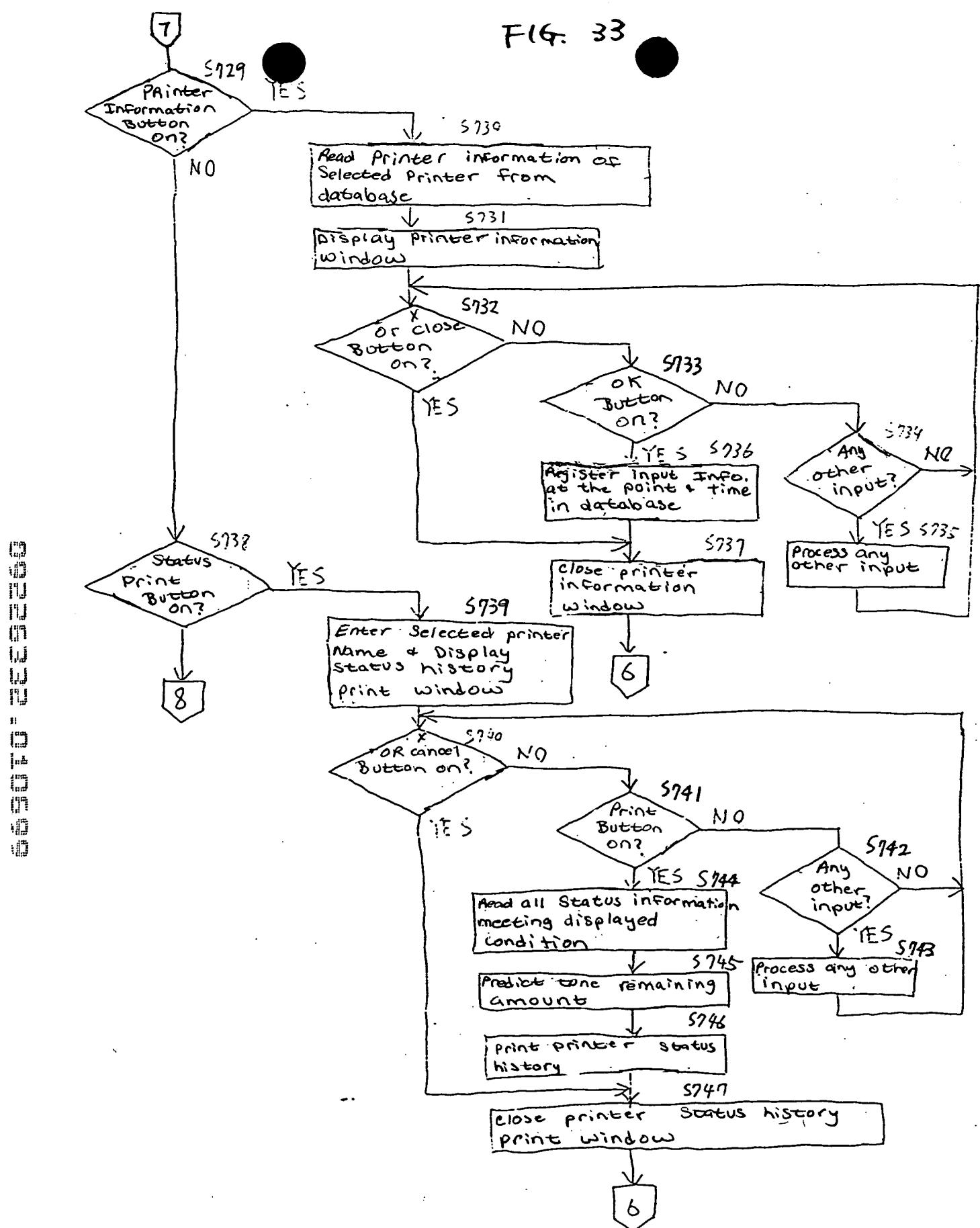
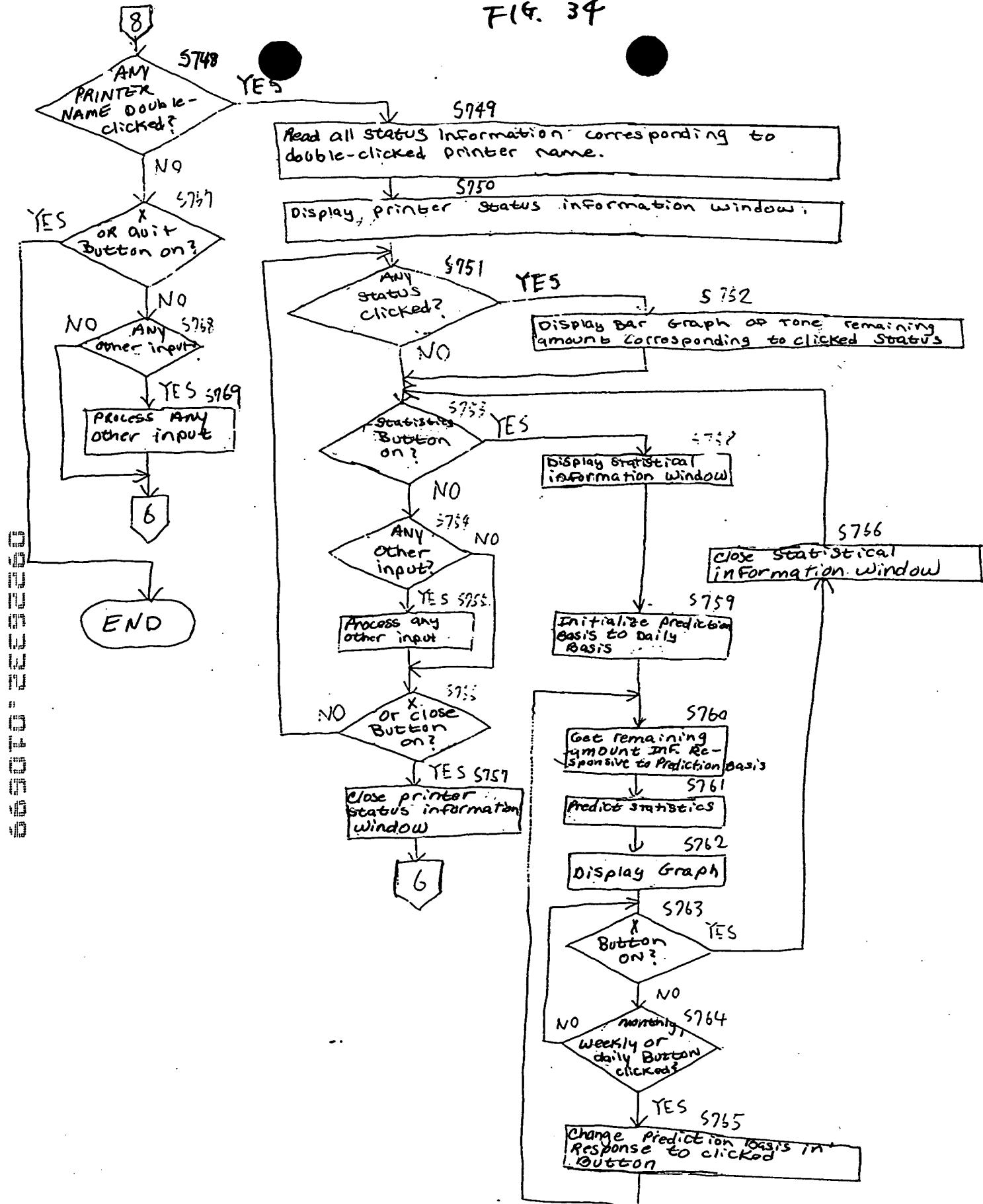


FIG. 34



ପାତ୍ରାନ୍ତିକ ପାତ୍ରାନ୍ତିକ

H 65. 35

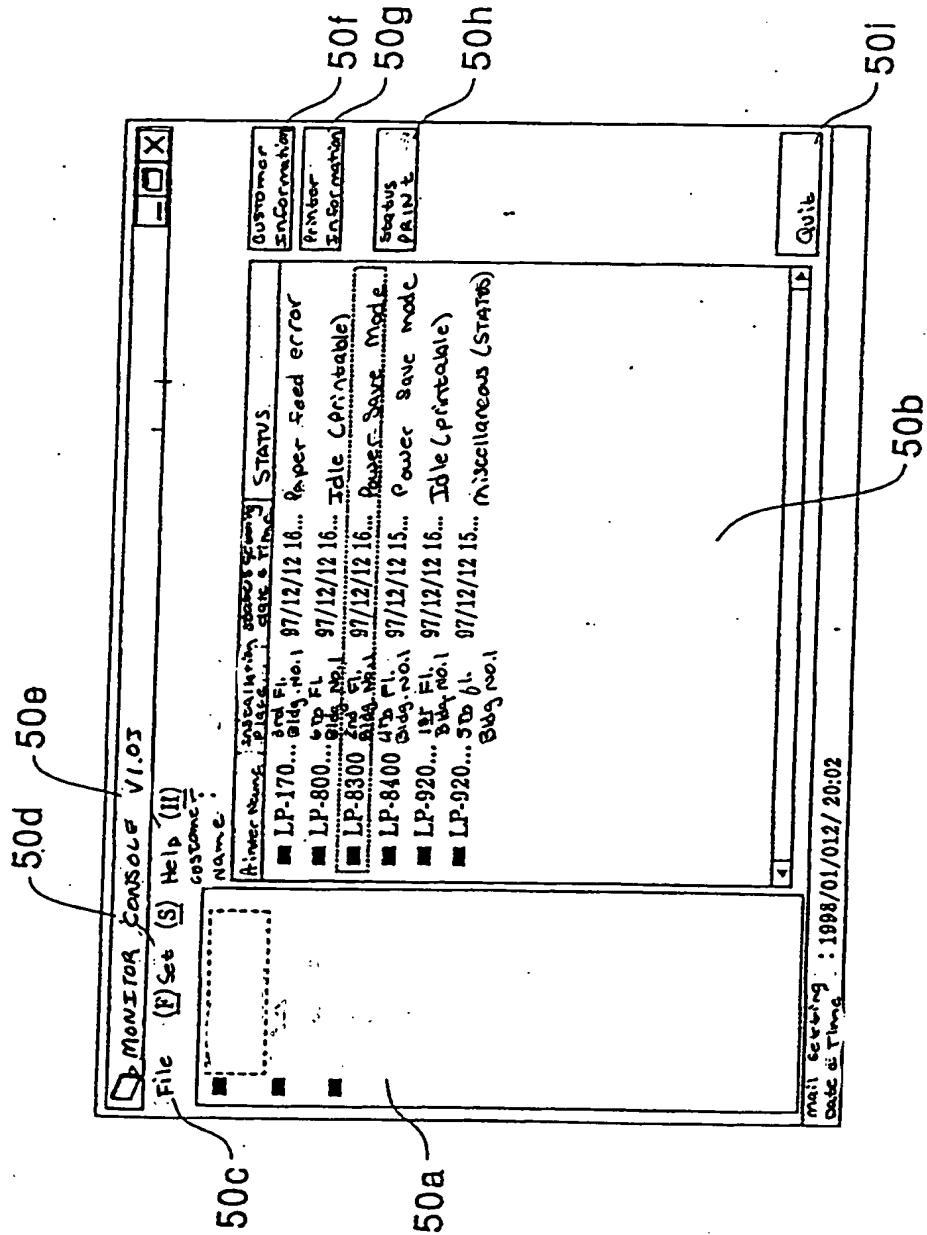


FIG. 36

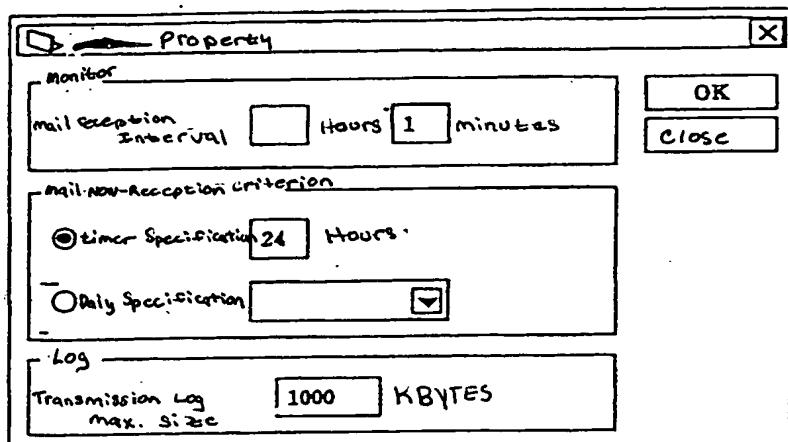


FIG. 37

Customer Information

Customer Information

Customer Name:

Address:

TEL. NO. : - - FAX : - -

Admin. :

mail Address :

Transmission Interval Hours minutes once every days

Remarks :

OK

CLOSE

DELETE CUSTOMER

Agency memo

FIG. 38

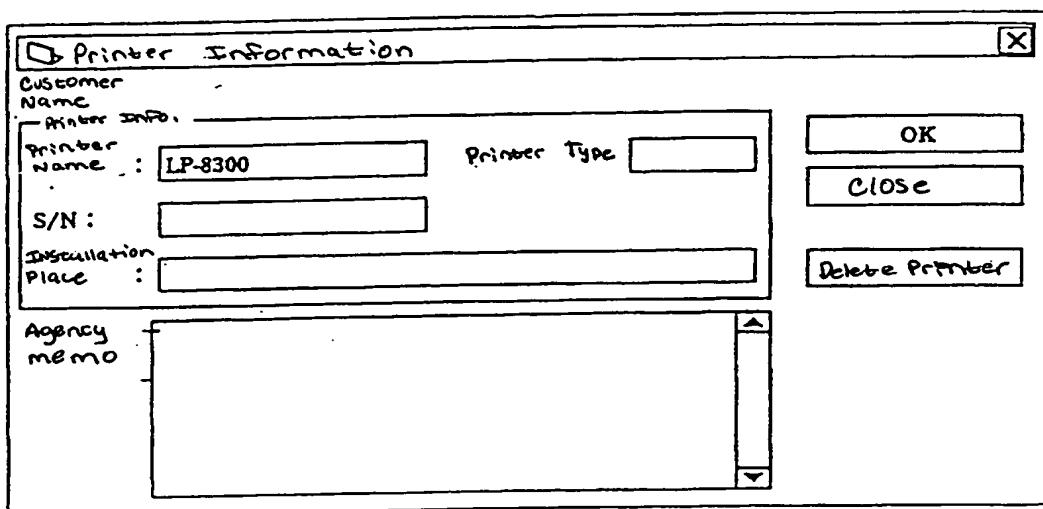


FIG. 39

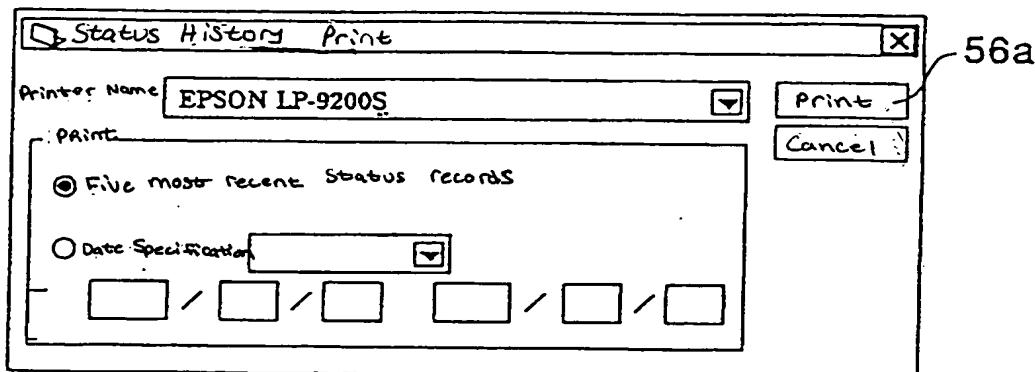


FIG. 40A

57

StatusReport-	1997/11/04	11:21:54
Mail Address (: aspa@xxx.xxx.co.jp)	
LP-9200s		
Print Period :	97/11/04 - 97/11/08	
Information was gotten at:	Toner Remaining Amount error Level	Status
97/11/04 12:30:00	80% 1	Idle (printable)
97/11/05 12:30:00	70% 1	Idle (printable)
97/11/06 12:30:00	55% 1	Idle (printable)
97/11/07	38% (predicted value)	Supply Required
97/11/08	20% (predicted value)	

FIG. 40B

57

StatusReport-	1997/11/25	11:21:54
Mail Address (: aspa@xxx.xxx.co.jp)	
LP-8300		
Print Period :	97/11/04 - 97/11/08	
Info. was gotten at:	Toner Remaining Amount error Level	Status
97/11/04 12:30:00	50% 1	Idle (printable)
97/11/14 12:30:00	42% 1	Idle (printable)
97/11/18 12:30:00	30% 1	Idle (printable)
97/11/25 12:30:00	20% 1	Idle (printable)
97/12/02	10% (predicted value)	

FIG. 41

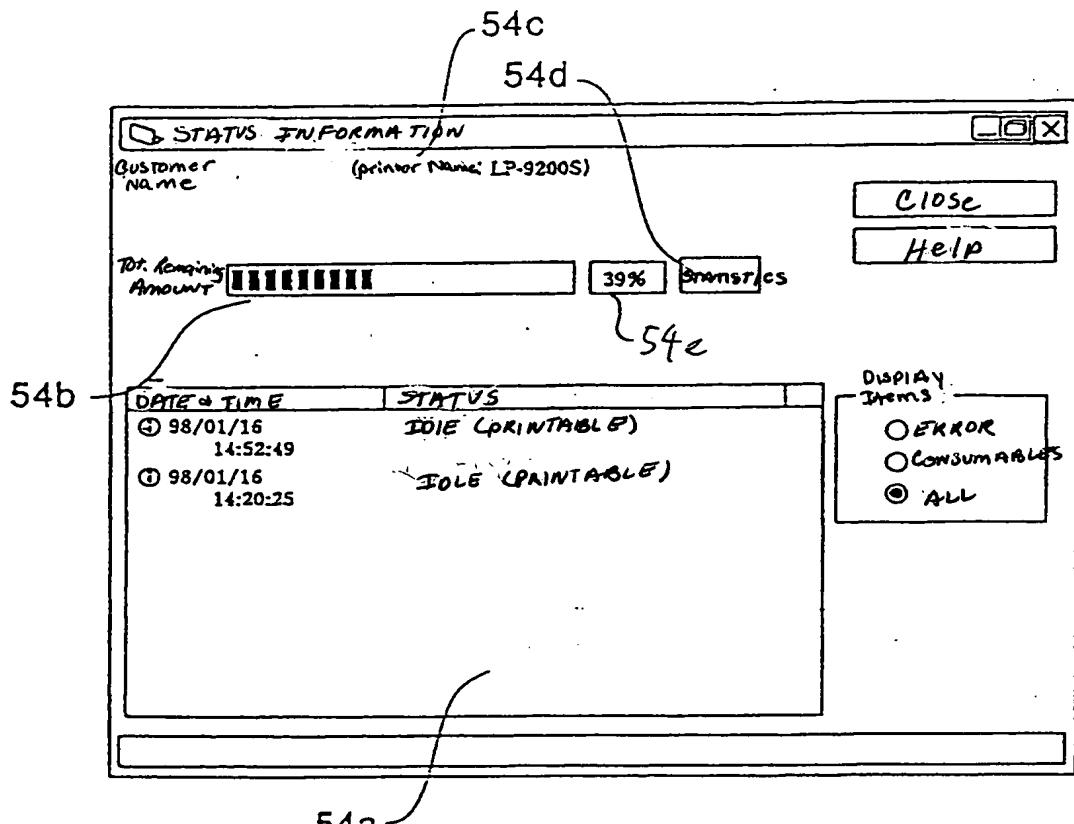


FIG. 42A

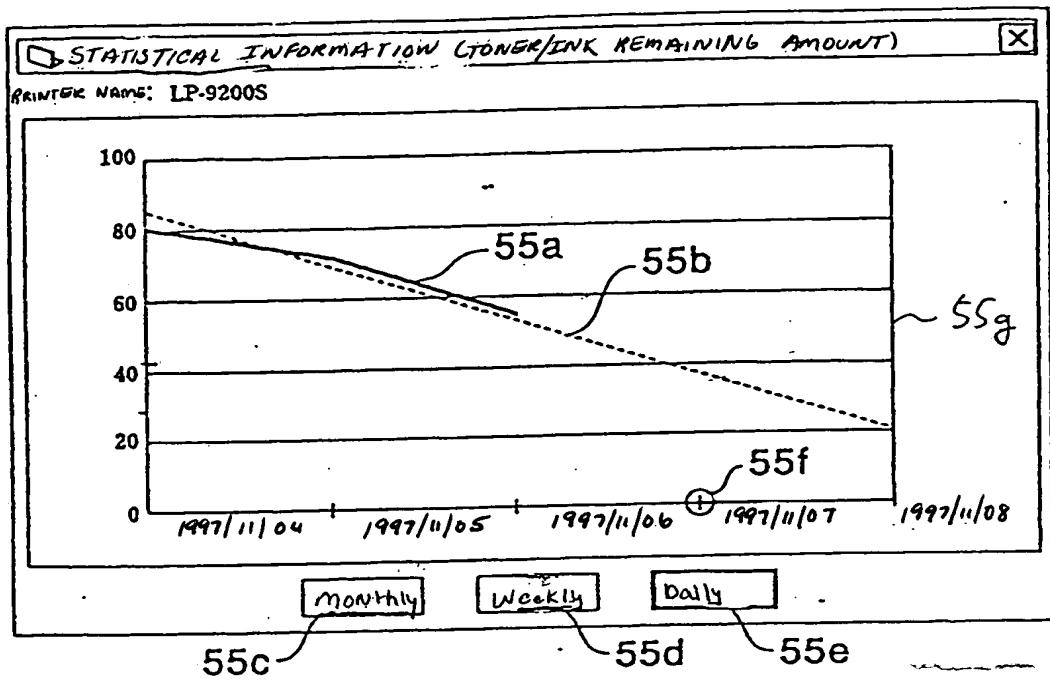


FIG. 42B

